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SIMMONS, PERRINE, ALBRIGHT & ELLWOOD, P.L.C.			EXAMINER	
22 SOUTH LI	- · · · · <del>-</del>	PATEL, NIMESH G		
IOWA CITY,	IA 52240		ART UNIT	PAPER NUMBER
			2189	5
			DATE MAILED: 09/25/2003	,

Please find below and/or attached an Office communication concerning this application or proceeding.

Total Control	

## Office Acti n Summary

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Application No. 09/681,175		Applicant(s) HERMANSON ET AL.		
	Nimesh G Patel	2189		
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-- The MAILING DATE of this c mmunication appears on the cover sheet with the correspondence address --**Period for Reply** 

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

PTOL-326 (Rev		Office Action S	iummary		Part of Paper No. 5
2) Notice of	of Draftsperson's Patent Drawing Review tion Disclosure Statement(s) (PTO-1449)		5) 🗌	Notice of Informal Patent Applica	
Attachment(s	i) of References Cited (PTO-892)		4) 🗌	Interview Summary (PTO-413) P	Paner Ne/e)
	knowledgment is made of a claim	for domestic price	ority under (	35 U.S.C. §§ 120 and/or 12	1.
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14) ☐ Acl	knowledgment is made of a claim	for domestic prior	ority under 3	35 U.S.C. § 119(e) (to a prov	visional application).
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	der 35 U.S.C. §§ 119 and 120		•		
·	ne oath or declaration is objected			Citori.	
İ	ne proposed drawing correction fil If approved, corrected drawings are i			• • • • • • • • • • • • • • • • • • • •	Examiner.
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	ne drawing(s) filed on <u>02/09/2001</u>	,—		•	
	ne specification is objected to by t				
Application	·				
	Claim(s) are subject to rest	riction and/or elec	ction require	ement.	
7)⊠ C	Claim(s) <u>2,9-11,14 and 20</u> is/are o	bjected to.			
6)⊠ C	Claim(s) <u>1-23</u> is/are rejected.				
5)□ C	Claim(s) is/are allowed.				
46	a) Of the above claim(s) is	are withdrawn fro	om conside	ration.	
4)⊠ C	Claim(s) 1-23 is/are pending in the	e application.		•	
(	Since this application is in conditicological conditions of the practice of th				
2a)□	This action is <b>FINAL</b> .	2b)⊠ This act	tion is non-f	final.	
1) 🗌	Responsive to communication(s)	filed on			
- Any rep	to reply within the set or extended period for reply received by the Office later than three month patent term adjustment. See 37 CFR 1.704(b).	ory will, by statute, cause is after the mailing date o	the application of this communic	to become ABANDONED (35 U.S.C. § ation, even if timely filed, may reduce a	133). ny
- If NO pe	X (6) MONTHS from the mailing date of this coreriod for reply specified above is less than thirty eriod for reply is specified above, the maximum to reply within the set or extended period for rep	statutory period will appl	ly and will expire	SIX (6) MONTHS from the mailing date	e of this communication.

#### **DETAILED ACTION**

#### **Drawings**

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## Specification

2. The disclosure is objected to because of the following informalities: The word "buss" is misspelled starting on page 2, paragraph 9 and appearing throughout the specification. It should be spelled "bus". Appropriate correction is required.

## Claim Objections

- 3. Claims 2, 9, 14, and 20 are objected to because of the following informalities: The word "buss" is misspelled. It should be spelled "bus". Appropriate correction is required.
- 4. Claim 10 is objected to because of the following informalities: The phrase "said signals a mouse" in line 5 of claim 10 is not worded correctly. Appropriate correction is required.
- 5. Claim 11 is objected to because of the following informalities: There are multiple "exterior means for connecting" used in claim 10. Applicant needs to specify which exterior means for connecting he is referring to in claim 11. Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 9, 19, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 7. Claim 9 recites the limitation "said expansion buss" in line 2 of claim 9. There is insufficient antecedent basis for this limitation in the claim.
- 8. Claim 19 recites the phrases "inserting said PC a rack of industrial PCs" and "said PC a local exterior coupled to said PC by a plurality of cables." Examiner is unsure what the applicant is claiming. Appropriate correction is required.
- 9. Claim 20 recites the limitation "said expansion bus" on the last line of claim 20. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 10. Claims 1, 3-8, 10-12, 14-18, 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thornton et al.(6,385,666), in view of Heller et al.(6,119,146) hereinafter referred to as Thornton and Heller respectively.
- Regarding claim 1, Thornton discloses a system of extending the separation range of a keyboard, a video display, and a mouse from a PC. Thornton discloses a conventionally configured PC as having keyboard, video, and mouse connectors thereon adapted for coupling with conventional keyboard, video, and mouse cables (Column 7, Lines 3-12). Thornton further discloses the use of an interface device adapted and configured for combining and separating keyboard, video, and mouse signals. The interfacing device is then coupled to a cable, which is coupled to a remote module/receiver/transmitter adapted and configured for combining and separating keyboard, video, and mouse signals. The cable carries the combination signal from the previously independent keyboard, video, and mouse signals(Column 3, Lines 53-64).

Thornton does not disclose the use of an expansion card. However, Thornton discloses of a device that has keyboard, video, and mouse connectors and a cable jack(Column 7, Lines 43-47 and Column 10, Line 60) that performs the same function as the expansion card claimed by the applicant. Further, Heller discloses the use of an expansion card that performs the same function as the claimed expansion card(Column 5, Lines 43-46 and 51-52). Therefore it would have been obvious to one of ordinary skill in the art to make Thornton's device integral(MPEP 2144.04.V.B) in a PC or to combine the teachings of Thornton's with that of Heller to make the external device into an internal device, since moving the external device inside a PC would reduce the amount of space taken up by the system. Thus, claim 1 is rejected.

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- 12. Regarding claims 3-4, Thornton does not disclose what type of cabling is used. However, Thornton discloses the use of RJ-11 jacks(Column 10, Line 60). It is well known in the art, that cables plugging into RJ-11 jacks use twisted pair wiring. It would have been obvious to use UTP cable since it is an inexpensive cable commonly used in the computer industry. The Electronic Industries Association/Telecommunications Industries Association defines the categories of twisted pair cabling. Therefore, it would have been obvious to use the highest category cabling, since it provides the highest bandwidth compared to the other categories.
- 13. Regarding claims 5-6, Thornton does not specify what kinds of connectors are used on the ends of the cable between the two interfacing devices. However, Thornton discloses the interfacing devices using RJ-11 jacks(Column 10, Lines 60-63), which have female connections. It would have been obvious that the connectors on the ends of the cable would have been identical male connectors.
- 14. Regarding claim 7, Thornton discloses the use of RJ-11 jacks(Column 10, Line 60) and therefore would have cabling that uses 2 pairs of twisted wiring. RJ-45 connectors use cabling that has 4 pairs of twisted wiring. It would have been obvious to use RJ-45 cabling with RJ-45 jacks, since it would allow more data to be sent between the interfacing devices.
- 15. Regarding claim 8, Thornton discloses the interfacing devices using RJ-11 jacks on the two interfacing devices (Column 10, Lines 60-63), which have identical female connections. It would have been obvious that the connectors on the ends of the cable would have been identical male connectors.
- 16. Regarding claim 10, Thornton discloses a system of extending the separation range of a keyboard, a video display, and a mouse from a PC. Thornton discloses exterior means for

connecting video signals to a video display, exterior means for connecting keyboard signals from a keyboard, and exterior means for connecting mouse signals from a mouse(Column 7, Lines 3-12). Thornton further discloses the use of an interface device adapted and configured for combining and separating keyboard, video, and mouse signals. Exterior cabling is then used to connect this device with the mouse, keyboard, and video connectors on the PC. The interfacing device is also coupled to a cable, which is coupled to a remote means for separating video signals from a composite signal and combining keyboard and mouse signals into a composite signal. The cable is used to transmit the composite signal to the remote means(Column 3, Lines 53-64).

Thornton does not disclose the use of an internal means for interfacing the video, mouse, and keyboard signals with a composite signal. However, Thornton discloses of an external device that interfaces the keyboard, video, and mouse signals with a composite signal(Column 7, Lines 43-47). Further, Heller discloses the use of an internal means that performs the same function as claimed by the applicant(Column 5, Lines 43-46 and 51-52). Therefore it would have been obvious to one of ordinary skill in the art to make Thornton's external device integral(MPEP 2144.04.V.B) in a PC or to combine the teachings of Thornton's with that of Heller to make the external device into an internal device, since moving the external device inside a PC would reduce the amount of space taken up by the system. Thus, claim 10 is rejected.

17. Regarding claim 11, Thornton does not specifically state what kind of connectors used in his invention. However, Thornton discloses the use of a PC being used with a conventional monitor(Column 6, Lines 61-62) and therefore would have a conventional VGA connector.

Thornton does not specifically state the use of serial devices or ports being used.

However, Thornton discloses the use of a conventional PC, which would have serial ports.

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Further, Thornton discloses the use of I/O devices, such as a joystick, trackball, touchpad, printer, etc.(Column 6, Lines 60, 64-65), which are devices that can be used as serial devices. Heller also discloses connecting a serial port, and interfacing means adapted to interface signals from the serial port with the composite signal(Column 11, Lines 28-31). Therefore, it would have been obvious to have an interfacing device adapted for interfacing signals from a serial port with the composite signal.

- 18. Regarding claim 12, Thornton does not disclose the use of an expansion card. However, Heller discloses the use of an interfacing means in the form of an expansion card in an expansion slot(Column 5, Lines 43-46 and 51-52). Therefore it would have been obvious to combine the teachings of Thornton with that of Heller for the reasons stated above.
- 19. Regarding claim14, it is well known in the art that once an expansion card is inserted in an available slot, which Heller's system does, the expansion card would receive power through the bus.
- 20. Regarding claim 15, Thornton discloses the use of exterior cabling that are conventional cables connecting the interface device with the connectors in the back of the PC(Column 7, Lines 43-47).
- 21. Regarding claim 16, Thornton does not disclose what type of cabling is used. However, Thornton discloses the use of RJ-11 jacks(Column 10, Line 60). It is well known in the art, that cables plugging into RJ-11 jacks use twisted pair wiring. It would have been obvious to use UTP cable since it is an inexpensive cable commonly used in the computer industry. The Electronic Industries Association/Telecommunications Industries Association defines the categories of

twisted pair cabling. Therefore, it would have been obvious to use the highest category cabling, since it provides the highest bandwidth compared to the other categories.

22. Regarding claim 17, Thornton discloses a method for extending the separation range of a keyboard, a video display, and a mouse from a PC. Thornton discloses a conventional PC, which uses conventional keyboard, video, and mouse connectors(Column 7, Lines 43-47). Thornton further discloses the use of an interface device that interfaces a single signal transmission path with distinct keyboard, video, and mouse signals. Conventional cabling is then used to connect this device with the mouse, keyboard, and video connectors on the PC. The interfacing device is also coupled to a cable, which is coupled to a remote device that separates signals from a composite signal into distinct. The cable is used to transmit the composite signal to the remote device. The remote device then provides distinct signals to the keyboard, mouse, and video display(Column 3, Lines 53-64).

Thornton does not disclose the use of an expansion card for interfacing the video, mouse, and keyboard signals with a composite signal. However, Thornton discloses of an external device that interfaces the keyboard, video, and mouse signals with a composite signal(Column 7, Lines 43-47). Further, Heller discloses the use of an internal means that performs the same function as claimed by the applicant(Column 5, Lines 43-46 and 51-52). Therefore it would have been obvious to one of ordinary skill in the art to make Thornton's external device integral(MPEP 2144.04.V.B) in a PC or to combine the teachings of Thornton's with that of Heller to make the external device into an internal device, since moving the external device inside a PC would reduce the amount of space taken up by the system.

Thornton does not specifically state the use of serial devices or ports being used.

However, Thornton discloses the use of a conventional PC, which would have serial ports.

Further, Thornton discloses the use of I/O devices, such as a joystick, trackball, touchpad, printer, etc.(Column 6, Lines 60, 64-65), which are devices that can be used as serial devices.

Heller also discloses connecting a serial port, and interfacing means adapted to interface signals from the serial port with the composite signal(Column 11, Lines 28-31). Therefore, it would have been obvious to have an interfacing device adapted for interfacing signals from a serial port with the composite signal.

- 23. Regarding claim 18, it is well known in the art that once an expansion card is inserted in an available slot, which Heller's system does, the expansion card would receive power through the bus.
- 24. Regarding claims 21, Thornton does not specifically state the use of serial devices or ports being used. However, Thornton discloses the use of a conventional PC, which would have serial ports. Further, Thornton discloses the use of I/O devices, such as a joystick, trackball, touchpad, printer, etc.(Column 6, Lines 60, 64-65), which are devices that can be used as serial devices. Heller also discloses connecting a serial port, and interfacing means adapted to interface signals from the serial port with the composite signal(Column 11, Lines 28-31). Therefore, it would have been obvious to have an interfacing device adapted for interfacing signals from a serial port with the composite signal.
- 25. Regarding claims 22-23, Thornton does not disclose means for coupling to a serial port. However, Thornton discloses the use of a conventional PC, which would have serial ports. Further, Thornton discloses the use of I/O devices, such as a joystick, trackball, touchpad,

printer, etc.(Column 6, Lines 60, 64-65), which are devices that can be used as serial devices.

Also, Heller discloses the use of an internal means for connecting the serial port to the expansion card(Column 11, Lines 28-31). Therefore, it would have been obvious to have an interfacing device adapted for interfacing signals from a serial port with the composite signal.

26. Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thornton as applied to claim 1 above, and further in view of Roberts(Patent number 6,146,150).

Roberts discloses a circuit card, which has disposed on opposing sides thereof, a PCI bus mating region and an ISA bus-mating region(Column 4, Lines 21-25). It would have been obvious to one of ordinary skill in the art to combine the teachings of Thornton, Heller, and Roberts to make an expansion card that can be easily used with an ISA bus as well as a PCI bus, since this can allow more flexibility. Plus, present trends point to the eliminations of ISA bus. If an ISA card was being used and a new system is purchased, which might not come with an ISA slot, a new card would have to be purchased. Having a card with both bus connections eliminates this problem.

27. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thornton as applied to claim 1 above, and further in view of Behrens et al.(6,609,034).

Thornton discloses a system of extending the separation range of a keyboard, a video display, and a mouse from a PC. Thornton discloses a conventionally configured PC as having keyboard, video, and mouse connectors thereon adapted for coupling with conventional keyboard, video, and mouse cables (Column 7, Lines 3-12). Thornton further discloses the use of an interface device adapted and configured for combining and separating keyboard, video, and mouse signals. Exterior cabling is then used to connect this device with the mouse, keyboard,

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and video connectors on the PC. The interfacing device is also coupled to a cable, which is coupled to a remote means for separating video signals from a composite signal and combining keyboard and mouse signals into a composite signal. The cable is used to transmit the composite signal to the remote means(Column 3, Lines 53-64).

Thornton does not specifically disclose the use of an industrial PC disposed in a rack. However, Thornton discloses that his computing system may be configured as any type of commercially available computer(Column 6, Lines 53-58). Since a commercially available PC would include an expansion slot, Thornton's computer would also include an expansion slot. It is well known in the art that an expansion slots are configured and adapted for provision of power and digital information when the slot is occupied. Also, the applicant also admits that sensors that monitor fan speeds and temperature of the microprocessor are well known in the art. Further, Behrens discloses the use of computers in a rack because the rack saves computer room space, which is quite expensive(Column 1, Lines 43-45). Therefore, it would have been obvious to combine the teachings of Thornton, admitted prior art, and Behrens, to use Thornton's computer as an industrial computer, with sensors for monitoring fan speeds and the microprocessor's temperature, disposed in a rack.

Thornton does not disclose the use of an expansion card. However, Thornton discloses of a device that has keyboard, video, and mouse connectors and a cable jack(Column 7, Lines 43-47 and Column 10, Line 60) that performs the same function as the expansion card claimed by the applicant. Further, Heller discloses the use of an expansion card that performs the same function as the claimed expansion card(Column 5, Lines 43-46 and 51-52). Therefore it would have been obvious to one of ordinary skill in the art to make Thornton's device integral(MPEP

2144.04.V.B) in a PC or to combine the teachings of Thornton's with that of Heller to make the external device into an internal device, since moving the external device inside a PC would reduce the amount of space taken up by the system.

Thornton does not disclose what type of cabling is used. However, Thornton discloses the use of RJ-11 jacks(Column 10, Line 60). It is well known in the art, that cables plugging into RJ-11 jacks use twisted pair wiring. It would have been obvious to use UTP cable since it is an inexpensive cable commonly used in the computer industry. The Electronic Industries Association/Telecommunications Industries Association defines the categories of twisted pair cabling. Therefore, it would have been obvious to use the highest category cabling, since it provides the highest bandwidth compared to the other categories.

Thornton does not specify what kinds of connectors are used on the ends of the cable between the two interfacing devices. However, Thornton discloses the interfacing devices using RJ-11 jacks(Column 10, Lines 60-63), which have female connections. It would have been obvious that the connectors on the ends of the cable would have been identical male connectors.

Thornton discloses the use of RJ-11 jacks(Column 10, Line 60) and therefore would have cabling that uses 2 pairs of twisted wiring. RJ-45 connectors use cabling that has 4 pairs of twisted wiring. It would have been obvious to use RJ-45 cabling with RJ-45 jacks, since it would allow more data to be sent between the interfacing devices.

Thornton discloses the interfacing devices using RJ-11 jacks on the two interfacing devices (Column 10, Lines 60-63), which have identical female connections. It would have been obvious that the connectors on the ends of the cable would have been identical male connectors.

Roberts discloses a circuit card, which has disposed on opposing sides thereof, a PCI bus mating region and an ISA bus-mating region(Column 4, Lines 21-25). It would have been obvious to one of ordinary skill in the art to combine the teachings of Thornton, Heller, and Roberts to make an expansion card that can be easily used with an ISA bus as well as a PCI bus, since this can allow more flexibility. Plus, present trends point to the eliminations of ISA bus. If an ISA card was being used and a new system is purchased, which might not come with an ISA slot, a new card would have to be purchased. Having a card with both bus connections eliminates this problem.

Thus, claim 20 is rejected.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent number 6,038,616 given to Thornton et al. discloses of a computer comprising of a computing system positioned at a first location and a human interface, which includes a video monitor, and plural I/O devices positioned at a second location remotely located relative to the first location.

Patent number 6,078,974 given to Kirshtein discloses of an apparatus, method, and system for providing a virtual open collector circuit for a connection between a computer and computer peripherals, such as a mouse or keyboard, where peripheral data is transferred over a bi-directional communications system. The peripherals are located at distances from the computer greater than possible using typical computer cables.

Patent numbers 6,112,264 and 6,345,323 given to Beasley et al. discloses of a computerized switching system for coupling a workstation to a remotely located computer. A signal-conditioning unit receives keyboard and mouse signals generated by a workstation and generates a data packet, which is transmitted to a central crosspoint switch. The packet is routed through a crosspoint switch to another signal conditioning unit located at a remotely located computer. The second signal-conditioning unit applies the keyboard and mouse commands to the keyboard and mouse connectors of the computer as if the keyboard and mouse were directly coupled to the remote computer. Video signals produced by the remote computer are transmitted through the crosspoint switch to the workstation. Horizontal and vertical sync signals are encoded on to the video signals to reduce the number of cables that extend between the workstation and the remote computer.

Patent number 6,219,730 given to Nguyen discloses of an apparatus, functioning as a user-input device(UID) to a computer by using a communication link, receives/transmits additional I/O signals via the same link. The I/O signals may be analog or digital. One implementation of the apparatus, made wireless and supported by speech processing software, allows its user to interact with the computer remotely. The inventive apparatus comprises means for converting the I/O signals into/from the digital I/O streams in such a manner as to be transferable to/from the computer along with the UI information via the same communication link.

Patent number 5,193,200 given to Asprey et al. discloses of a communications extension link for use between a computer and display unit that has at the computer site a first interface circuit connected to it and adjacent to the keyboard and display unit a second interface circuit

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connected to it. The two interface circuits may then be spaced up to 300 feet for a monochrome

display and up to 150 feet for a color display by an extension cable.

Patent number 5,375,068 given to Palmer et al. discloses of a video teleconferencing

method and apparatus for computer workstations connected by a digital data network includes a

transmission source portion for a local workstation to send audio and video teleconference data

across the network to one or more remote workstations, and, a receiver for the local workstation

to receive audio and video teleconference data back from the remote workstations.

28. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nimesh G Patel whose telephone number is 703-305-7583. The

examiner can normally be reached on M-F, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark H Rinehart can be reached on 703-305-4815. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-2100.

Nimesh G Patel

Examiner

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**NGP** 

September 9, 2003

Knows Down

Khanh Dang Primary Examiner